

920190-95749

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF	)	
	)	
Michael John Sargeant	)	
	)	
SERIAL NO: To Be Assigned	)	Customer number: 23644
	)	
FILED: Herewith	)	
	)	
FOR: Containment System for Computer	)	
Equipment	)	

**CLAIM FOR PRIORITY**

Honorable Director of Patents and Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

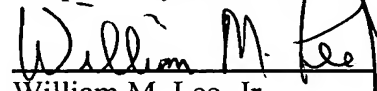
Dear Sir:

Under the International Convention, for the purposes of priority, applicant claims the benefit of United Kingdom Application No. 0309706.0, filed 29 April 2003.

A certified copy of said application will is submitted herewith.

March 31, 2004

Respectfully submitted,

  
William M. Lee, Jr.

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INVESTOR IN PEOPLE

The Patent Office  
Concept House  
Cardiff Road  
Newport  
South Wales  
NP10 8QQ

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation and Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein together with the Statement of inventorship and of right to grant of a Patent (Form 7/77), which was subsequently filed.

In accordance with the Patents (Companies Re-registration) Rules 1982, if a company named in this certificate and any accompanying documents has re-registered under the Companies Act 1980 with the same name as that with which it was registered immediately before re-registration save for the substitution as, or inclusion as, the last part of the name of the words "public limited company" or their equivalents in Welsh, references to the name of the company in this certificate and any accompanying documents shall be treated as references to the name with which it is so re-registered.

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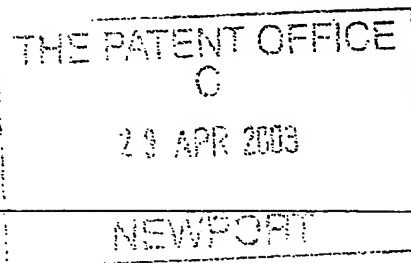
Signed

*Andrew Gorse*

Dated 16 February 2004

# Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)



The Patent Office

Cardiff Road  
Newport  
Gwent NP9 1RH

1. Your reference

C1508

2. Patent application number

(The Patent Office will fill in this part)

0309706.0

29 APR 2003

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Patents ADP number (if you know it)

FUJITSU SERVICES LIMITED  
26 Finsbury Square, London EC2A 1SL

If the applicant is a corporate body, give the country/state of its incorporation

ENGLAND

8347395002 II

4. Title of the invention

CONTAINMENT SYSTEM FOR  
COMPUTER EQUIPMENT

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

D C Guyatt  
Intellectual Property Department  
Fujitsu Services Limited  
Observatory House  
Windsor Road  
Slough SL1 2EY

Patents ADP number (if you know it)

8347395003 EI

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number  
(if you know it)

Date of filing  
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing  
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

- a) any applicant named in part 3 is not an inventor, or
- b) there is an inventor who is not named as an applicant, or
- c) any named applicant is a corporate body.

Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description

4

Claim(s)

1

Abstract

1

Drawing(s)

5 - 5 RM

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

2

Request for preliminary examination and search (Patents Form 9/77)

1

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

FEE SHEET FS1

11. I/We request the grant of a patent on the basis of this application.

Signature

*D. C. Guyatt*

Date

28/4/2003

12. Name and daytime telephone number of person to contact in the United Kingdom

D. C. Guyatt

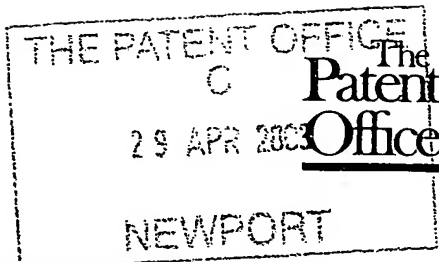
01753 604388

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7/77

**Statement of inventorship and of  
right to grant of a patent**

The Patent Office

Cardiff Road  
Newport  
Gwent NP9 1RH

1. Your reference C1508

2. Patent application number  
(if you know it)

0309706.0

29 APR 2003

3. Full name of the or of each applicant

FUJITSU SERVICES LIMITED

4. Title of the invention

CONTAINMENT SYSTEM FOR COMPUTER EQUIPMENT

5. State how the applicant(s) derived the right  
from the inventor(s) to be granted a patent

BY REASON OF EMPLOYMENT

6. How many, if any, additional Patents Forms  
7/77 are attached to this form?  
(see note (c))

7.

I/We believe that the person(s) named over the page (and on  
any extra copies of this form) is/are the inventor(s) of the invention  
which the above patent application relates to.

Signature

Date 28/4/2003

8. Name and daytime telephone number of  
person to contact in the United Kingdom

D.C. Guyatt 01753 604388

**Notes**

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- b) Write your answers in capital letters using black ink or you may type them.
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Enter the full names, addresses and postcodes of the inventors in the boxes and underline the surnames

<p>Patents ADP number (if you know it): <u>8621252001</u></p>
<p>Michael John Sargeant 17 The Lea Finchampsstead Wokingham Berkshire RG40 4YB</p>

<p>Patents ADP number (if you know it):</p>

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## **Containment system for computer equipment**

This invention relates to a containment system for computer equipment.

In certain applications, such as on sea vessels, there is a requirement for computer equipment to be mounted securely, so as to retain it in the event of shock or vibration. The object of the present invention is to provide a novel containment system for this purpose.

### *Summary of the invention*

According to the invention, there is provided a containment system for equipment comprising at least a computer module and a display screen, the system comprising:

- a first containment unit, comprising a plurality of sections removably fastened together to form a first enclosure for containing the computer module, with a plurality of fastening holes for allowing the first containment unit to be fastened to a fixed object, and with a pair of strengthening flanges extending parallel to each other in an outward direction; and
- a second containment unit comprising a plurality of sections removably fastened together to form a second enclosure for containing the display screen, the second enclosure being tiltably mounted on a base to allow the position of the display screen to be adjusted, and the base having a plurality of fastening holes for allowing it to be fastened to a fixed object;
- wherein the second containment unit is dimensioned to be nestable between the strengthening flanges of the first containment unit.

### *Brief Description of the Drawings*

One containment system in accordance with the invention will now be described by way of example with reference to the accompanying drawings.

Figures 1a to 1c are plan, front and side views of a first part of a first containment unit.

Figures 2a to 2c are plan, front and side views of a second part of the first containment unit.

Figures 3a to 3c are plan, front and side views of a first part of a second containment unit.

Figures 4a to 4c are plan, front and side views of a second part of the second containment unit.

Figure 5 shows how the first and second parts of the first containment unit fit together.

Figure 6 shows how the first and second parts of the second containment unit fit together.

Figure 7 shows how the second containment unit nests with the first containment unit.

Figure 8 shows a possible modification of the first containment unit.

### *Description of an embodiment of the invention*

The containment system comprises a computer module containment unit (figures 1, 2 and 5), and display containment unit (figures 3, 4 and 6). The system preferably also includes further containment units (not shown) for holding a keyboard and mouse.

The computer module containment unit consists of a housing 10 (figure 1) and a closure member 20 (figure 2).

The housing 10 is formed from two sheet metal components 11 and 12, spot-welded together to form three sides of a generally rectangular box structure. In this example the box is



dimensioned to receive a computer module (not shown) approximately 400 x 300 x 100 mm in size. L-shaped plates 13 are spot-welded to the component 11 to increase its rigidity. Cut-outs 14 give access to the computer module, and also to reduce the weight of the unit. Integral lugs 15 at the top and bottom of the box prevent longitudinal movement of the computer module. Rubber pads (not shown), glued to the lugs and elsewhere, hold the computer module securely.

The closure member 20 is a single sheet metal component, consisting of a rectangular panel 21 with two triangular flanges 22 extending parallel to each other at right angles to the rectangular panel. These strengthen and provide rigidity for the containment unit. Cut-outs 23 provide access and to reduce weight.

As shown in figure 5, the computer module containment unit 50 is assembled by locating the computer module (not shown) in the housing 10 and then removably fastening the closure member 20 to the housing 10 by bolts 51 at top and bottom, to provide the fourth side of the box. The whole unit can be secured to a fixed surface (e.g. a desk), by means of screws through mounting holes 16.

The display containment unit consists of an adjustable stand 30 (figure 3) and a bezel 40 (figure 4).

The adjustable stand 30 comprises a sheet metal back plate 31, mounted on a base 32 by a lockable tilt mechanism 33. In this example, the back plate is dimensioned to receive an LCD display unit (not shown), approximately 400 x 300 x 50 mm in size. Cut-outs 34 are provided for access to the back of the display unit and to reduce weight. The unit can be screwed down to a fixed surface (e.g. a desk), by means of mounting holes 35 in the base.

The bezel 40 is formed from sheet metal, and comprises a rectangular frame-shaped portion 41 with four integral lugs 42..

Referring to figure 6, the display containment unit 60 is assembled by locating the display unit (not shown) on the back plate 31, and then removably fastening the bezel 40 to the back plate 31, by screws 61, so as to hold the display unit firmly in place.

Referring to figure 7, the display containment unit 60 is designed to be nestable between the triangular flanges 22 of the computer module containment unit 50. This reduces the overall envelope of the assembly, ensuring that it fits into a compact cube.

#### *Some possible modifications*

It will be appreciated that many modifications may be made to the system described above without departing from the scope of the present invention. For example, the system may be adapted to hold different shapes and sizes of computer module and display unit.

Referring to figure 8, in one particular modification the top horizontal section 52 of the computer module containment unit 50 is formed integrally with the part 20, rather than with part 10. In other words, in this version the computer module containment unit 50 is formed from two generally L-shaped parts, each of which provides two sides of the rectangular box structure. As before, the parts 10, 20 are removably fastened together by bolts 51.

**CLAIMS**

1. A containment system for equipment comprising at least a computer module and a display screen, the system comprising:
  - a first containment unit, comprising a plurality of sections removably fastened together to form a first enclosure for containing the computer module, with a plurality of fastening holes for allowing the first containment unit to be fastened to a fixed object, and with a pair of strengthening flanges extending parallel to each other in an outward direction; and
  - a second containment unit comprising a plurality of sections removably fastened together to form a second enclosure for containing the display screen, the second enclosure being tiltably mounted on a base to allow the position of the display screen to be adjusted, and the base having a plurality of fastening holes for allowing it to be fastened to a fixed object;
  - wherein the second containment unit is dimensioned to be nestable between the strengthening flanges of the first containment unit.
2. A containment system substantially as hereinbefore described with reference to the accompanying drawings.

**ABSTRACT**

A containment system comprises first and second containment units. The first containment unit comprises a plurality of sections removably fastened together to form a first enclosure for a computer module, with a plurality of fastening holes for allowing the first containment unit to be fastened to a fixed object, and with a pair of strengthening flanges extending parallel to each other in an outward direction. The second containment unit comprises a plurality of sections removably fastened together to form a second enclosure for a display screen, the second enclosure being tiltably mounted on a base to allow the position of the display screen to be adjusted, and the base having a plurality of fastening holes for allowing it to be fastened to a fixed object. The second containment unit is dimensioned to be nestable between the strengthening flanges of the first containment unit.

FIG. 1A

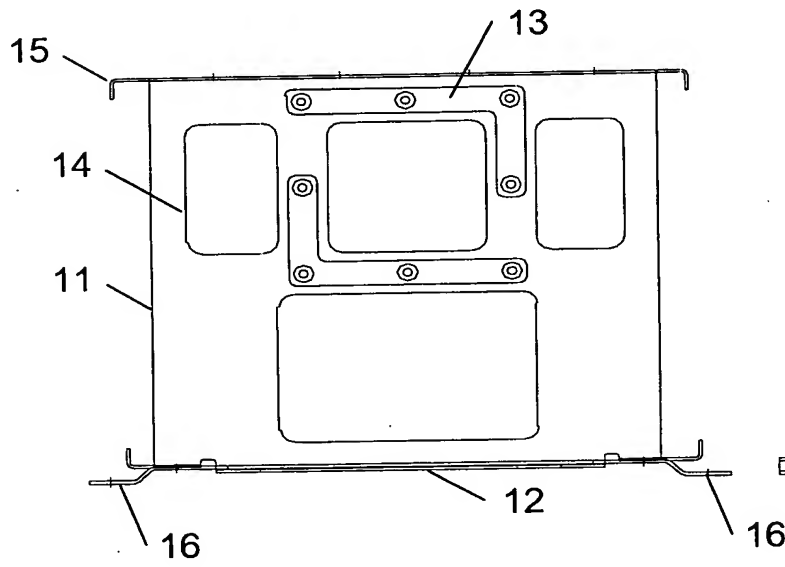
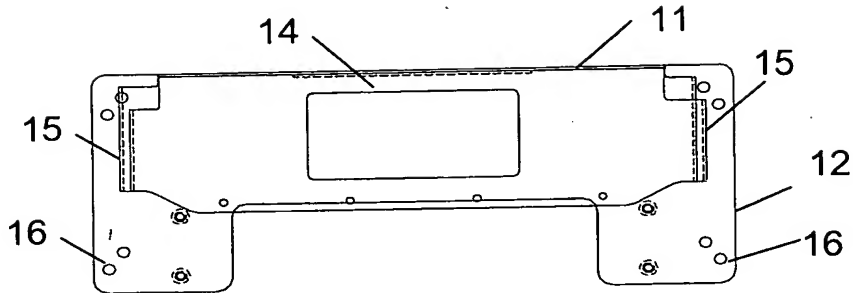


FIG. 1B

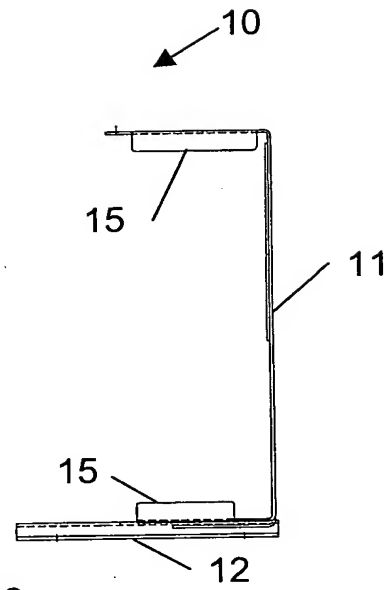
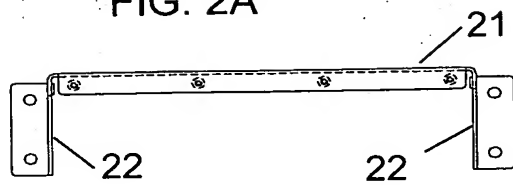


FIG. 1C

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FIG. 2A



20

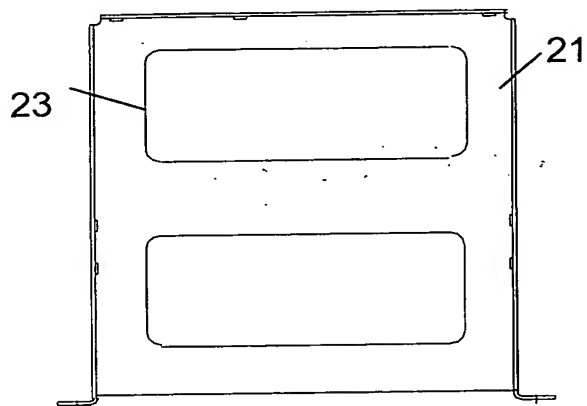


FIG. 2B

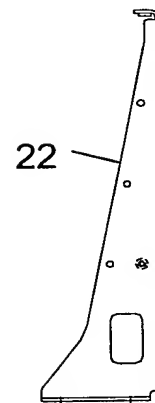


FIG. 2C

FIG. 3A

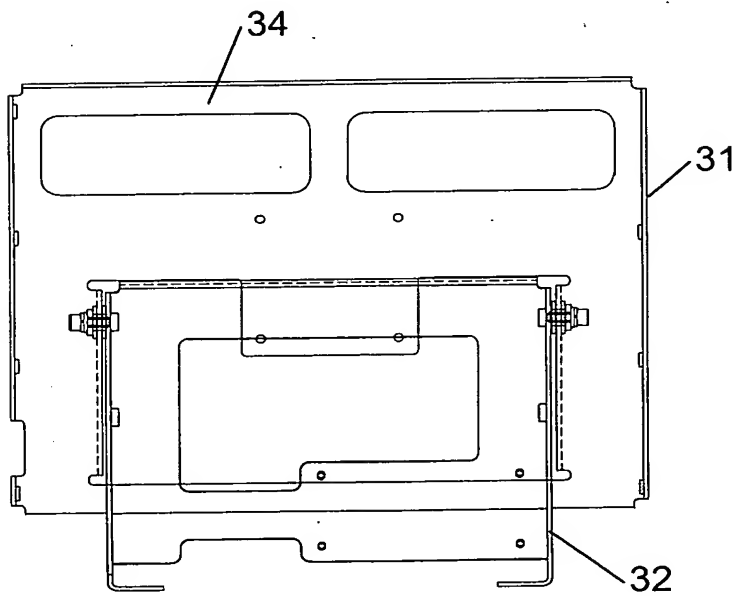
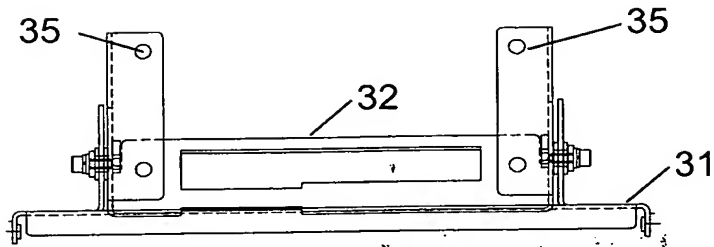


FIG. 3B

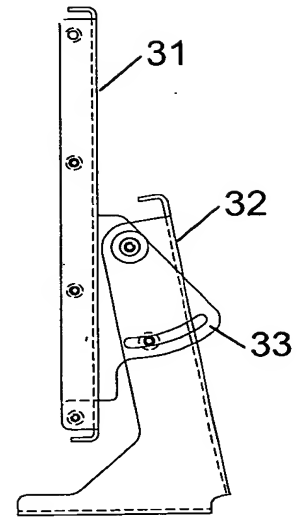
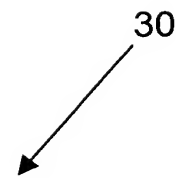


FIG. 3C

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FIG. 4A

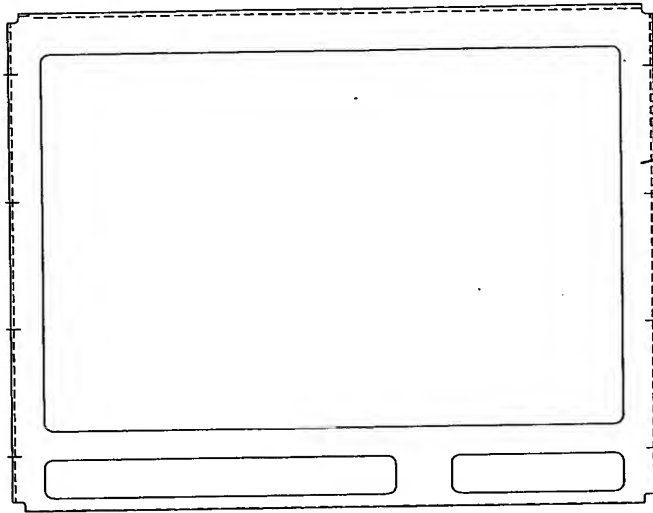
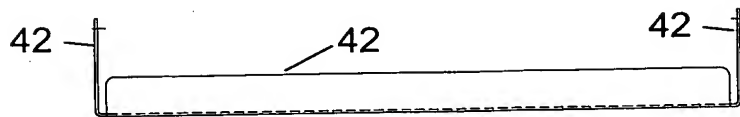


FIG. 4B

40

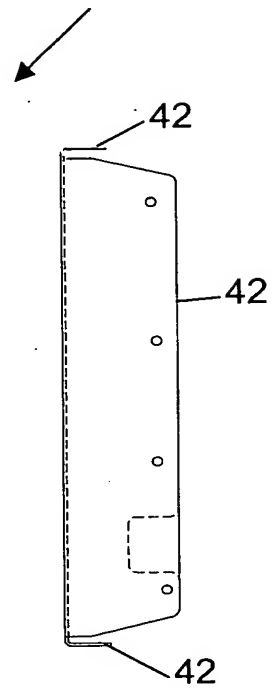


FIG. 4C



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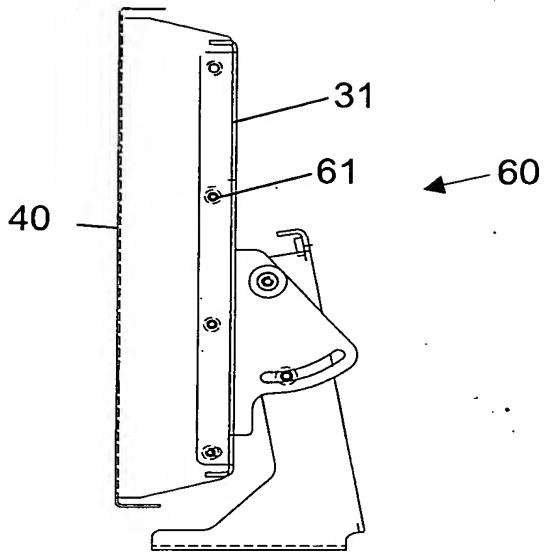


FIG. 6

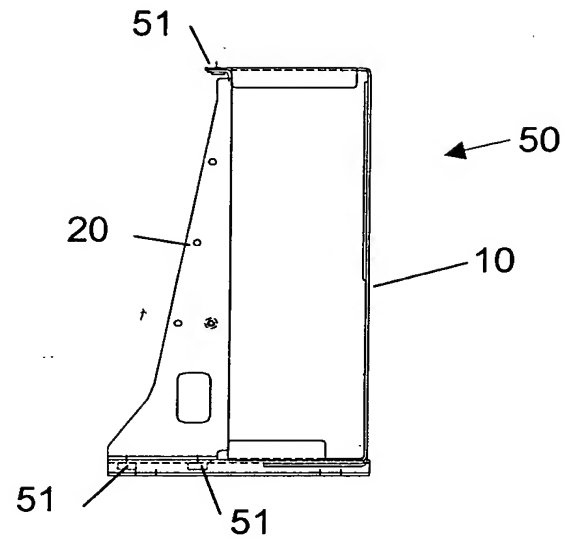


FIG. 5

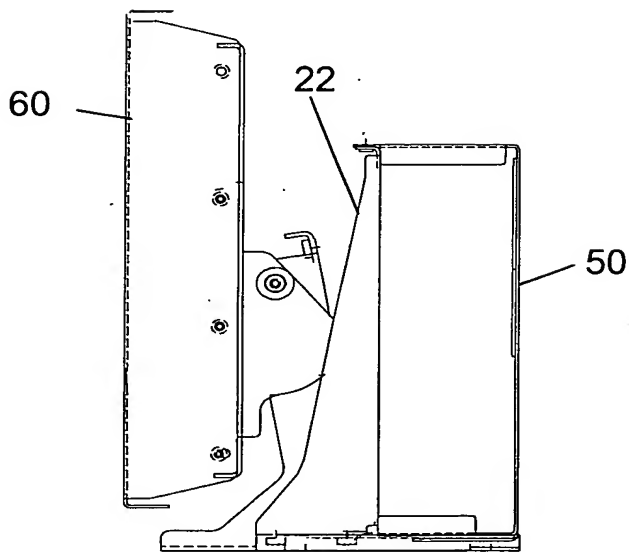


FIG. 7

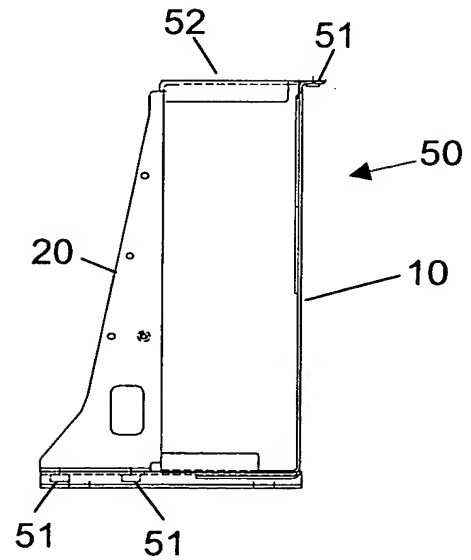


FIG. 8